

OPEK SWR/WATT meter SWR-7, SWR-8 User Manual

INTRODUCTION

This SWR&WATT meter is a highly accurate RF meter for measuring Forward Power, Reversed Power, and VSWR by using cross-needle analog meter.

MAIN FEATURE

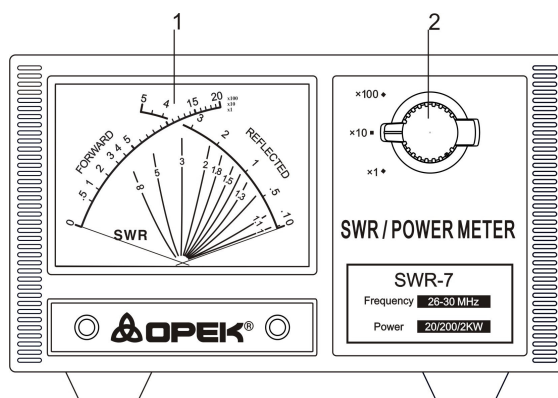
1. Large, precision, 2.5" (64mm) Cross Needlemeter display for ease of reading
2. Forward/Reversed/SWR readings display at the same time
3. True Directional Coupler for increased accuracy over frequency
4. Rugged metal cabinet with speckled black finish and designer style grey injection molded front panel aesthetically complements modern transceivers

SPECIFICATIONS

MODEL	SWR-7	SWR-8
Frequency Range	26-30 MHz	140-160 MHz 420-460 MHz
Center Cal.	27 MHz (CB)	2 meter VHF : 145 MHz 70 cm UHF : 440 MHz
Power Range	0 - 2KW	0 - 200W
Power Scale	20/200/2KW	2/20/200W
Maximum Power	2KW	200W
Accuracy LOW (x 1) Range	(AVG) +/- 10%, +/- 15% or better	
Accuracy HIGH (x10, x 100) Range	(AVG) +/- 5%, +/- 10% or better	
Min. Power (Fwd) measured	1W	
Input/Output Connectors	M type ('N' type optional)	
Weight (Net)	770 g	790 g
Insertion Loss	Less than 0.1 dB	
Testing Function	Fwd/Rev Power, SWR	
Input/Output Impedance	50 OHM	
Dimension (W/H/D) mm	140 x 84 x 122	

OPERATION

<FRONT PANEL>

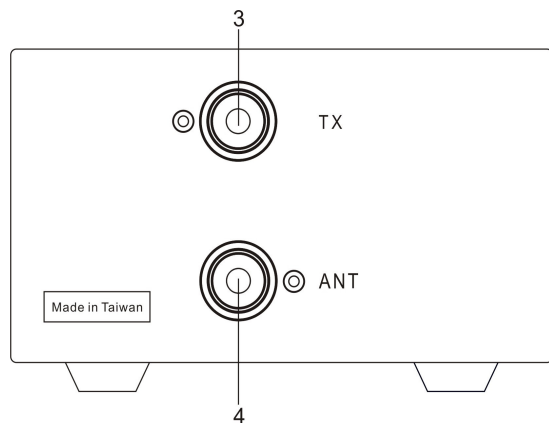


SWR-7 Front view

<DESCRIPTION>

1. Meter Display :
Indicates FWD/REV power in watts and VSWR ratio
2. Range switch :
Selects RF power range multiplier x 1, x 10, x 100

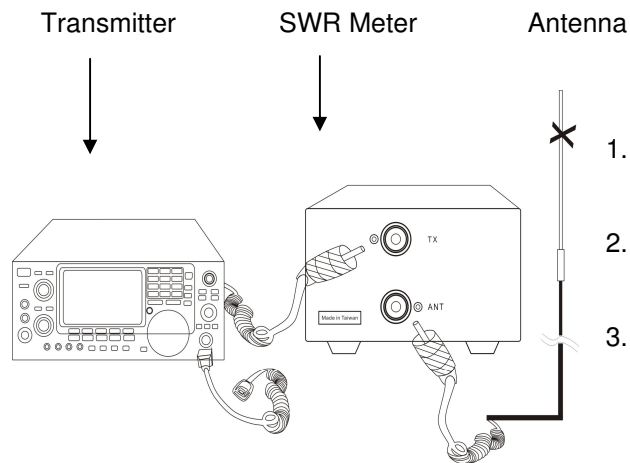
<REAR PANEL>



<DESCRIPTION>

- 3. TX connector :
Coax connector to transmitter 50 ohm RF output
- 4. ANT connector :
Coax connector to 50 ohm antenna system

<INSTALLATION/OPERATION>



<FORWARD, REVERSE PWR, SWR MEASUREMENT>

- 1. Set the RANGE switch to the proper meter multiplier (X1, X10, X100) for the expected power level of the intended measurement.
- 2. It corresponds to 20/200/2KW forward and 5/50/500W reversed in SWR-7, 2/20/200W forward and 0.5/5/50W reversed in SWR-8 (Fwd : Rev = 4 : 1 in scale)
- 3. Set the radio transceiver to transmit mode and read the scale corresponding to the RANGE selected

[CAUTION]

- 1. Since the meter movement is very sensitive, avoid excessive vibration or mechanical shock to the meter.
- 2. Watch the absolute maximum power could be applied to the meter by different models you bought.
- 3. The meter must never be reverse connected. Always observe the correct connections to transmitter and antenna as indicated on the rear sockets.
- 4. Do not expose the meter to excessive temperatures, high humidity, or strong magnetic fields.
- 5. Contact your local dealer for service. Dealer information is in the back of user manual.